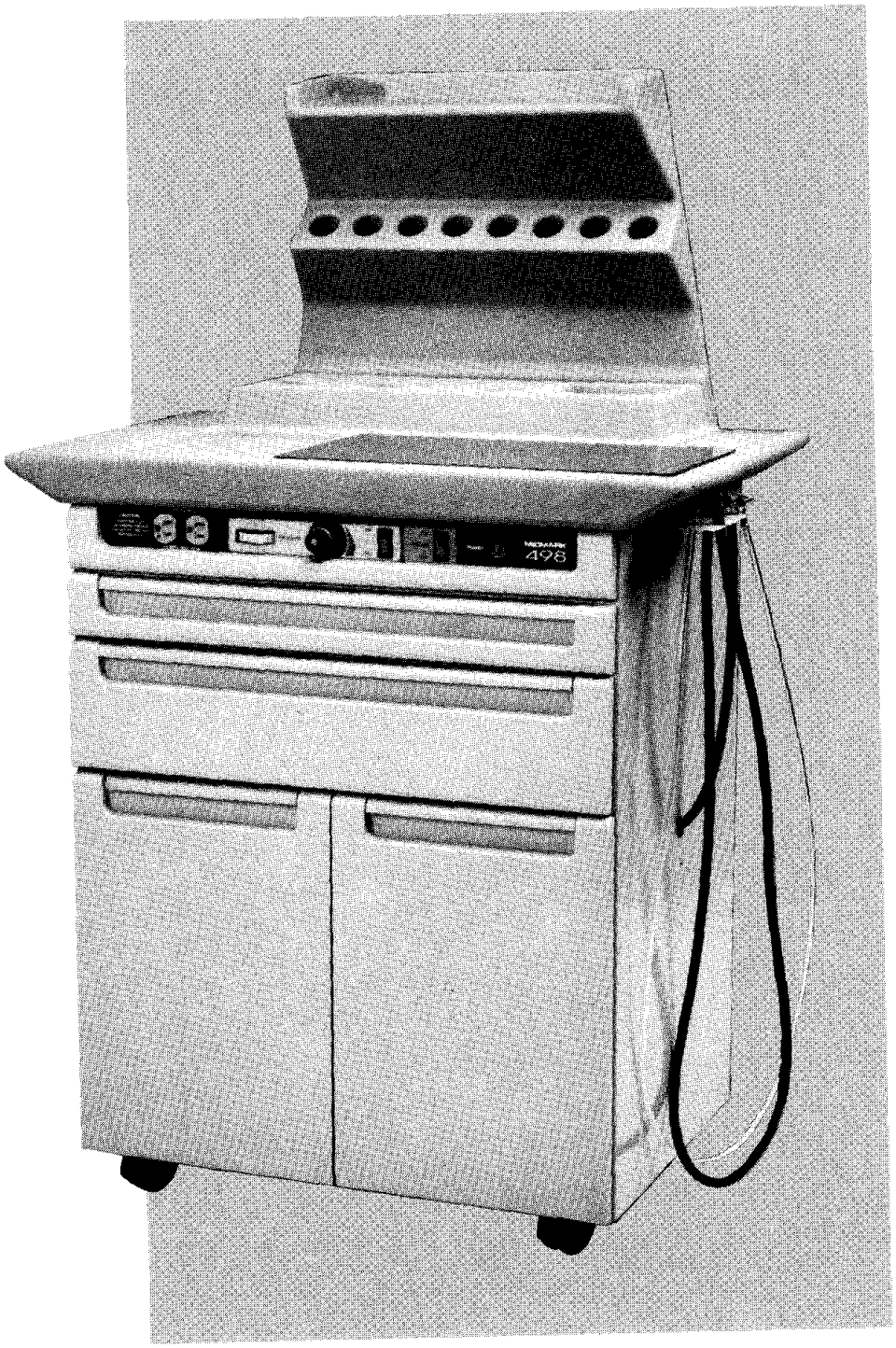
Go To Table Of Contents

MIDMARK®

Installation and Operation Manual

498 Power Procedures Center



Go To Table Of Contents

Contents

Important Instructions 1
Introduction 2
Unpacking and Installation 2
Operation of Cart Power Features 2
Cart Features 3
Care of Cart 4
Power System Maintenance 4

General Operation and Care of Equipment Introduction

This manual covers complete instructions for the installation, operation, and normal care of Model 498 Power Procedures Center.

LIMITED WARRANTY

The Company shall repair or replace any products or parts thereof, which prove to be defective in workmanship and/or material. Except as it may otherwise specifically agree in writing the Company shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, installation or other work which may be done upon or in connection with such products by the Company's authorized Dealers or others.

Any part or parts of a product to be repaired or replaced under this limited warranty must be returned to the factory f.o.b.

This warranty does not apply to any part or product which examination discloses has been misused, abused, altered or tampered with in any way. This warranty shall be in effect for a period of twelve months from the date of shipment to the customer.

In no event shall the company be liable for consequential or special damages in the event of warranty repair or replacement of its products.

THE FOREGOING IS IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

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Important Instructions

SAFETY FIRST: The primary concern of Midmark Corporation is that this equipment be operated and maintained with the safety of the patient and doctor in mind. To assure safer and more reliable operation:

1. Read this manual before installing and operating your equipment.
2. It is the responsibility of the purchaser to assure that appropriate personnel are informed of the contents of this manual.
3. Be sure that you understand the instructions contained in this manual before attempting to install or operate this equipment.
4. This manual should remain permanently affixed to the equipment.

Warnings

Throughout this manual are Note, Caution, and Danger warnings that call attention to particular procedures. The items are used as follows.

Note
A note is used to amplify an operating procedure, practice, or condition.

CAUTION
A CAUTION is used for an operating procedure, practice, or condition which, if not correctly followed, could result in equipment damage.

DANGER
A DANGER is used for an operating procedure, practice, or condition which, if not correctly followed, could result in personal injury.

For your personal safety and that of your patients, all **DANGER** warnings are repeated here. Become thoroughly familiar with them and observe them at all times

1. Use 115 Volt - 60 Hertz alternating current only. Failure to do so could result in personal injury or equipment damage. (Page 2)
2. Do not use this cart in an explosive or oxygen-enriched atmosphere. Using the cart in these situations could cause personal injury and equipment damage. (Page 2)
3. All exposed metal parts of cart are electrically grounded. When performing a cauterization or similar treatment, patient must be insulated from the metal portions of the cart by non-conductive material. Failure to do this could result in electrical shock or burns to the patient. (Page 2)
4. If the cart malfunctions, immediately remove your foot or hand from control switch and unplug the power cord from the wall receptacle. (Page 2)
5. Keep all foreign objects away from the footswitch so that the pedals are not accidentally activated. Failure to do so could result in personal injury or damage to the cart. (Page 3)
6. Failure to perform a periodic inspection could result in personal injury or equipment damage. (Page 4)

Model 498 Power Procedures Center

The 498 Power Procedures Center has been designed to help reduce effort and work fatigue involved in the examination and treatment of an ever-increasing number of patients during the doctor's normal work day.

The 498 is easily moved using the handles molded into either side of top. The molded top and backsplash also provide indentations for secure placement of equipment during movement of cart. The 498 provides strong aspiration and adjustable pressure. The aspiration and pressure hose bracket may be mounted on either side of cart for easy access. The 2" and 4" drawers along with the bulk storage inside doors provide convenient storage for most any type of instrument or equipment. Together these features provide a cart which can fit the needs of most any treatment and examination being performed today.

The 498 Power Procedures Center has panel mounted controls as well as a footswitch to control vacuum and pressure. There is also a pressure adjustment feature which allows the doctor to monitor and adjust pressure from front control panel.

Unpacking and Installation

Unpacking: To avoid damage to the cart's molded top or backsplash, do not use a knife or other sharp object to open packaging when unpacking. Remove backsplash from top of carton.

Remove carton by sliding up over top of cart. Remove (4) corner pads. Lift cart straight up. Clear from cardboard support and set on level floor.

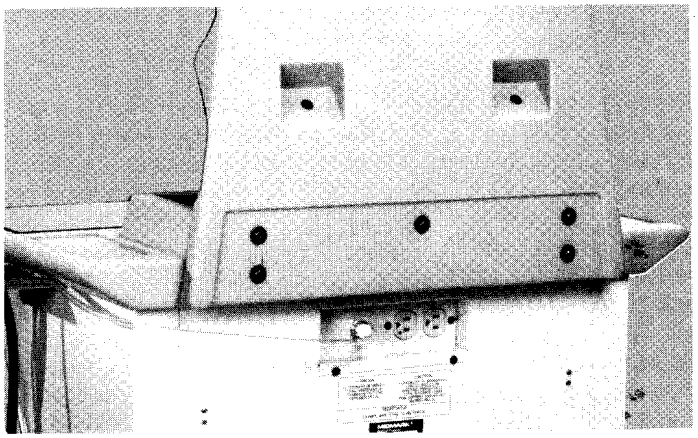

FIGURE 1

Assembly: Remove (5) 1/4-20 screws and (5) 1/4 washers from bag in top drawer. Align (5) holes in backsplash with threaded inserts located on back of molded top. Place a screw and washer in each hole. Tighten screws until backsplash is held firm to top, Fig. 1. Remove clear inlay pad from packing and place into section in top with smooth edges down. Remove foot control from packing and plug into cart. Remove and assemble hoses. See hose removal and replacement.

DANGER
Use 115 Volt - 60 Hertz alternating current only. Failure to do so could result in personal injury or equipment damage.

DANGER
Do not use this cart in an explosive or oxygen-enriched atmosphere. Using the cart in these situations could cause personal injury and equipment damage.

DANGER
All exposed metal parts of cart are electrically grounded. When performing a cauterization or similar treatment, patient must be insulated from the metal portions of the cart by non-conductive material. Failure to do this could result in electrical shock or burns to the patient.

Electrical: The electrical rating of the Model 498 Power Procedures Center is 115 VAC, 60 Hertz, 12 Ampere. The three-pronged grounding plug on the cart power cord must be inserted into a matching three-pronged, grounded, noninsulated correctly polarized 115 volt receptacle.

The single cart power cord provides power for both the pumps and duplex receptacles located in the front and rear of cart.

Operation of Cart Power Features

For optimal performance, allow the cart to reach room temperature before operating.

DANGER
If the cart malfunctions, immediately remove your foot or hand from control switch and unplug the power cord from the wall receptacle.

Power Switch: The power switch interrupts power to the vacuum and pressure and front receptacle as well as footswitch. This switch is located to the extreme right on control panel. (See Fig. 2)

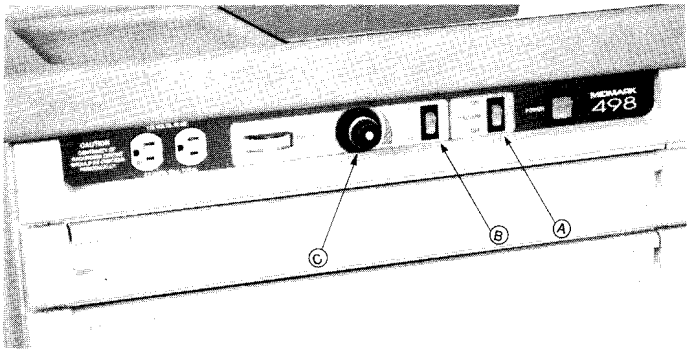

FIGURE 2

Footswitch: The footswitch was designed for operator comfort and convenience. A firm stance may be maintained by placing foot onto the center of the footswitch. By rocking your foot side to side, you will activate either vacuum or pressure.

DANGER
Keep all foreign objects away from the footswitch so that the pedals are not accidentally activated. Failure to do so could result in personal injury or damage to the cart.

Vacuum Control: To turn vacuum on depress top of rocker switch labeled "vacuum", on control panel, see Fig. 2 (Item A). On footswitch, depress left side of pedal labeled "vacuum", see Fig. 3. Hold down pedal until vacuum procedure is complete.

Pressure Control: To turn pressure on depress top of rocker switch in grey area labeled "pressure", on control panel, see Fig. 2 (Item B). On footswitch, depress right side of pedal labeled "pressure", see Fig. 3. Hold down pedal until pressure procedure is complete.

Note
This equipment is not designed for continuous operation. If the unit is operated continually the motors will overheat.

Pressure Adjustment: Turn pressure switch on and place desired instrument on end of pressure hose. Pull out on knob labeled "pressure" on control panel, see Fig. 2 (Item C). Turn knob counterclockwise to decrease pressure and clockwise to increase pressure. Before administering to patient the pressure should be adjusted using the pressure gauge as a reference. When the pressure has been adjusted to the proper setting, the knob Fig. 2 (Item C) should be pushed back until a snapping sound is heard. The pressure is now set until another pressure adjustment is needed.

Note
Do not adjust pressure knob completely closed. This will cause motors to overheat.

Cart Features

Footswitch: A cord connected foot control will operate the vacuum and pressure. The footswitch control connects to the cart back next to the power cord entrance, Fig. 3.

To connect foot control align prongs on plug with slots in receptacle and push plug into position. The plug will only go on in one direction.

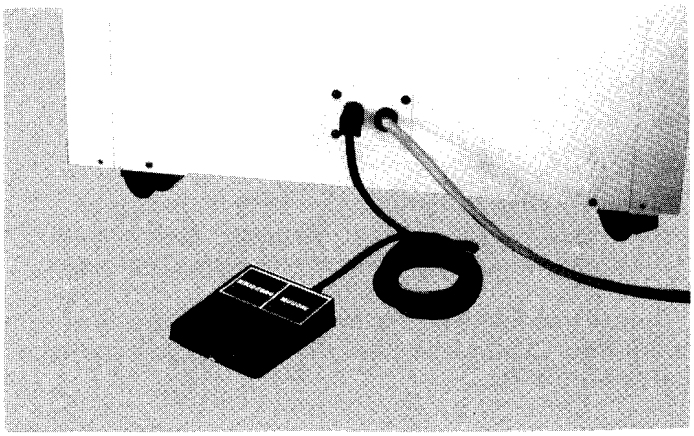

FIGURE 3

Vacuum Hose Replacement: Remove vacuum hose end from slot in hose bracket, Fig. 4. Feed hose up through center hole in bracket. The hose is then disconnected from vacuum canister and fed from the inside to the outside of the cart. The hose is then free to be disposed of. To remove small hose between vacuum canister and vacuum pump disconnect hose from vacuum canister. The vacuum canister should now be removed and disposed of, if needed. Remove (2) thumb screws (Item A, Fig. 5) from motor cover. Pull bottom of motor cover up to release motor cover from clips in back of cart. Remove hose from vacuum pump and replace with new hose. Replace motor cover and install hoses and vacuum canister in reverse order than they were removed.

Note
The frequency of changing and method of disposal of vacuum hose and canister is the responsibility of end user and should be in accordance with the local laws governing its use.

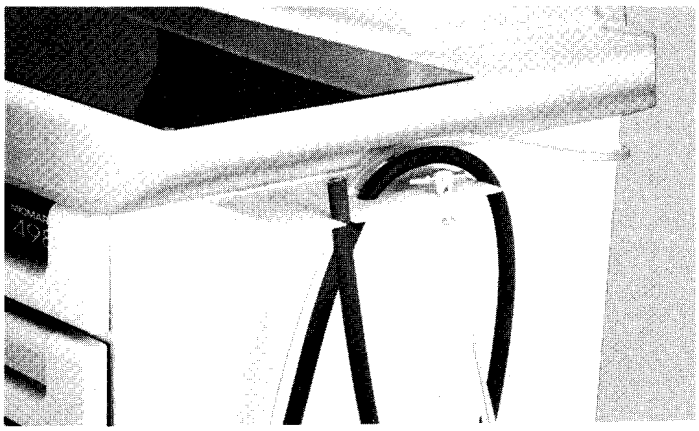

FIGURE 4

Hose Bracket: The hose bracket can be mounted on right side, or left side. The vacuum hose is moved to come through either side to accommodate the location of the hose bracket.

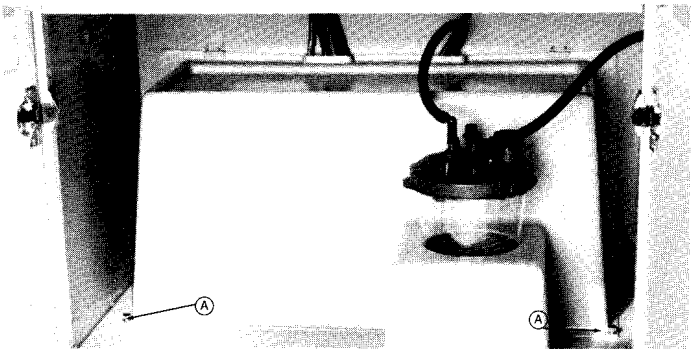

FIGURE 5

Drawer Dividers: The 4" drawer is provided with three plastic drawer dividers. The dividers each slide into a slot located in front and rear of drawer. By installing these drawer dividers the drawer can be divided into (4) individual compartments.

The 2" drawer is provided with a (1) piece drawer divider which can be easily removed for cleaning and convenience. To remove the drawer divider simply pull front of drawer divider up until bottom clears top of drawer front, then pull out.

FIGURE 6

Drawer Removal: To remove the drawers, pull drawer past its normal drawer extension until drawer slide disengages, Fig. 6.

Care of Cart

Care of Backsplash and Top: All plastic cart parts should be cleaned with a clean, damp cloth weekly. Any soiled areas may be cleaned with soap and water or other household cleaners.

Care of Painted Metal Surfaces: All painted metal surfaces should be wiped clean with a clean, soft cloth weekly, and a periodic application of paste wax to smooth paints will preserve the finish luster.

Power System Maintenance

Little routine maintenance is required other than a periodic inspection of electrical cords to make sure they are free of cuts or damage and clear of moving parts. Due to the mechanical, electrical nature of this equipment, periodic inspections at six (6) month intervals by your dealer are recommended.

DANGER
Failure to perform a periodic inspection could result in personal injury or equipment damage.

Return To Table Of Contents